

Client 1 (Write)

Network

Repository Data - Server 2

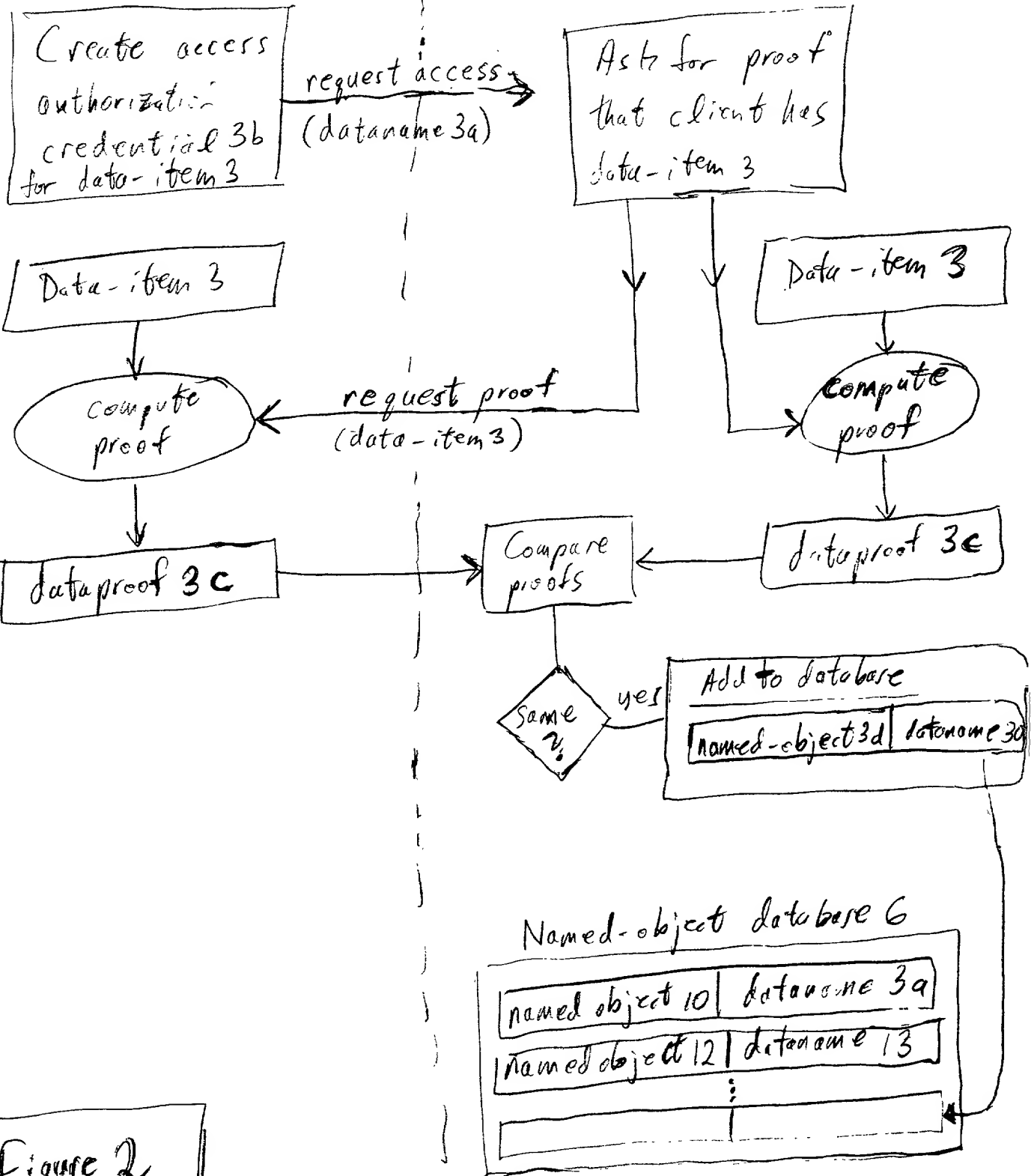
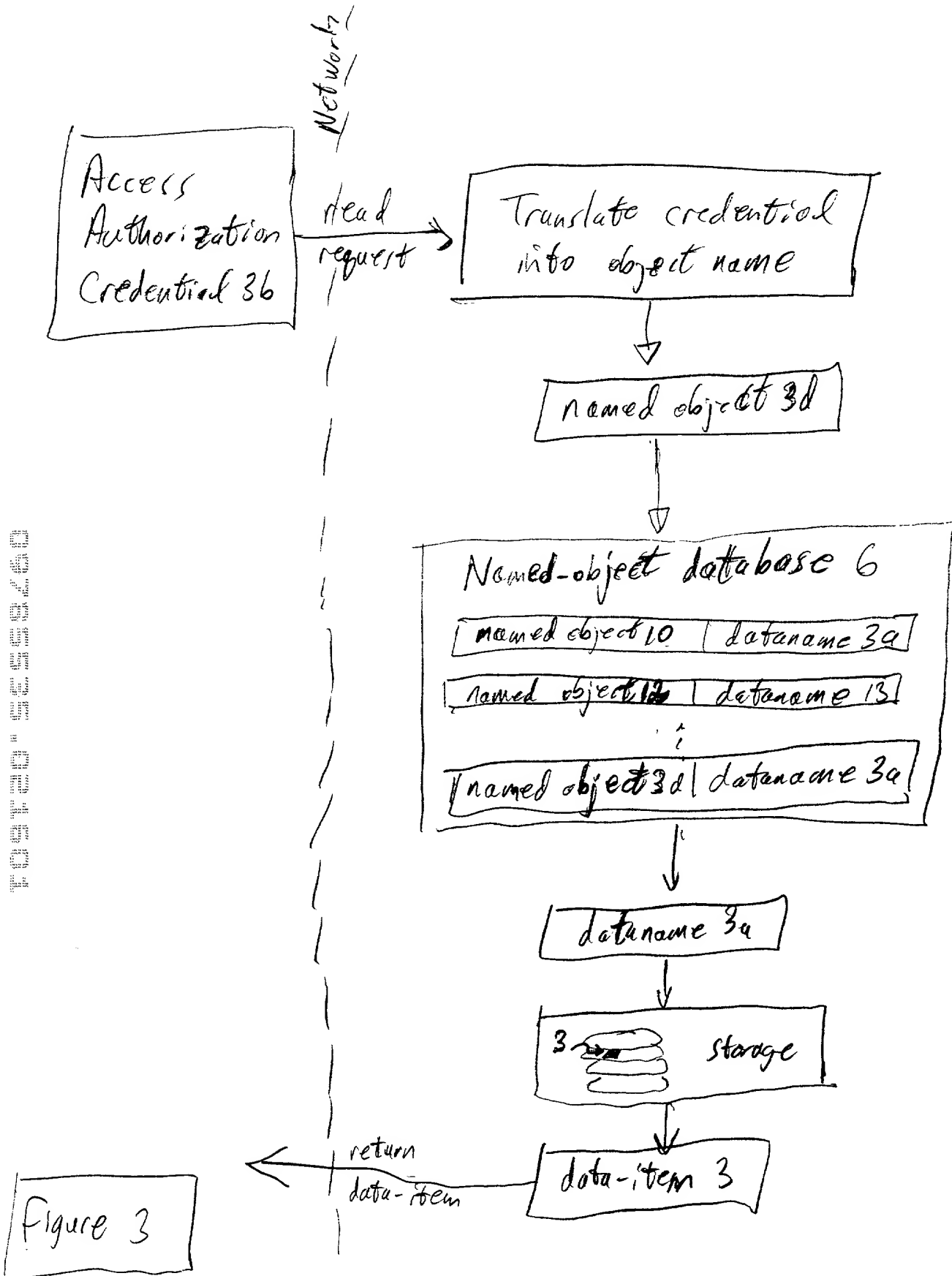


Figure 2

Client 5 (read)

Repository Data - Server 2

Figure 3



USER

REPOSITORY

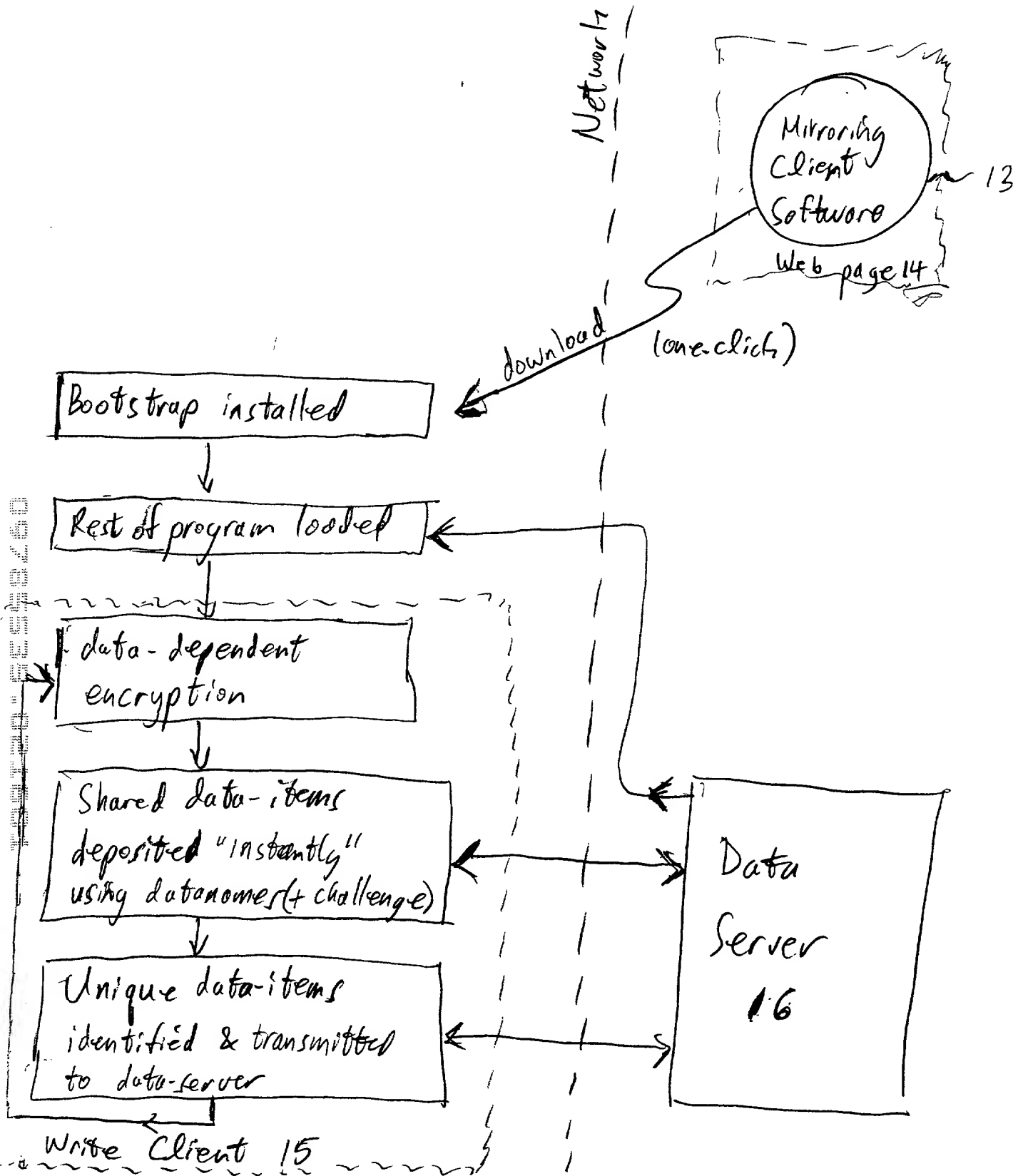


Figure 4

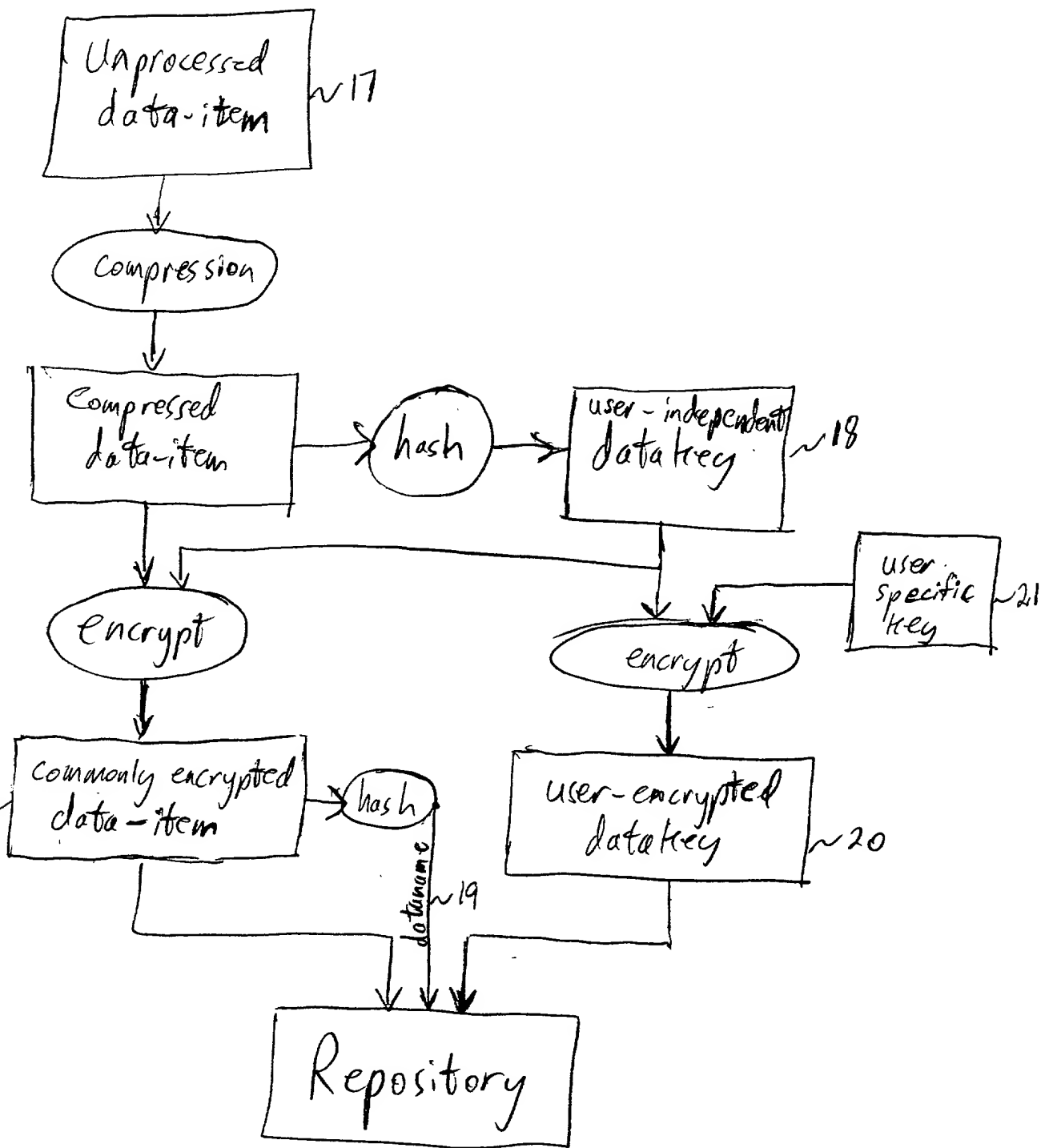


Figure 5

USER

REPOSITORY

Network

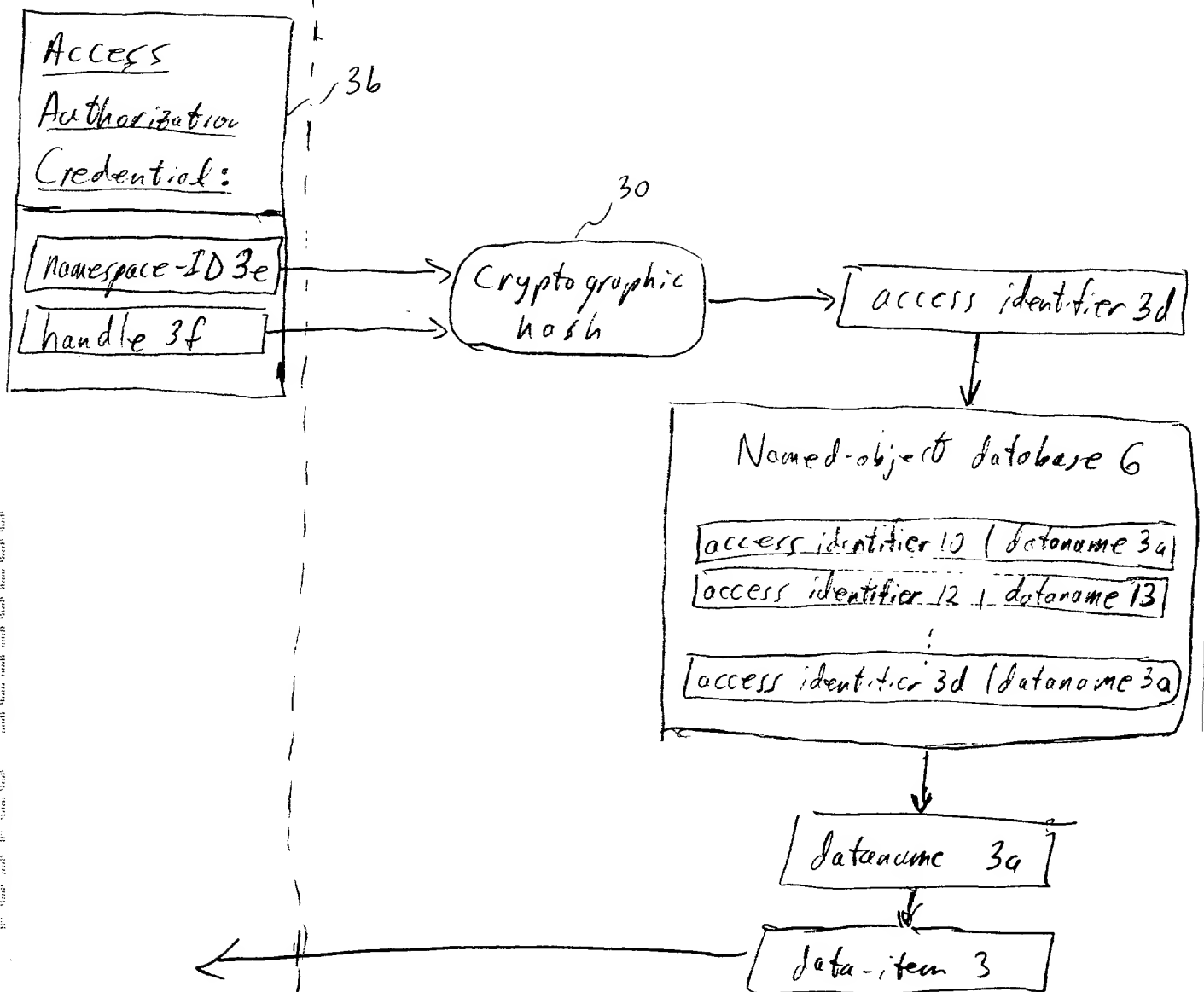


Figure 6.

USER

Network

Repository

Data-Server 47

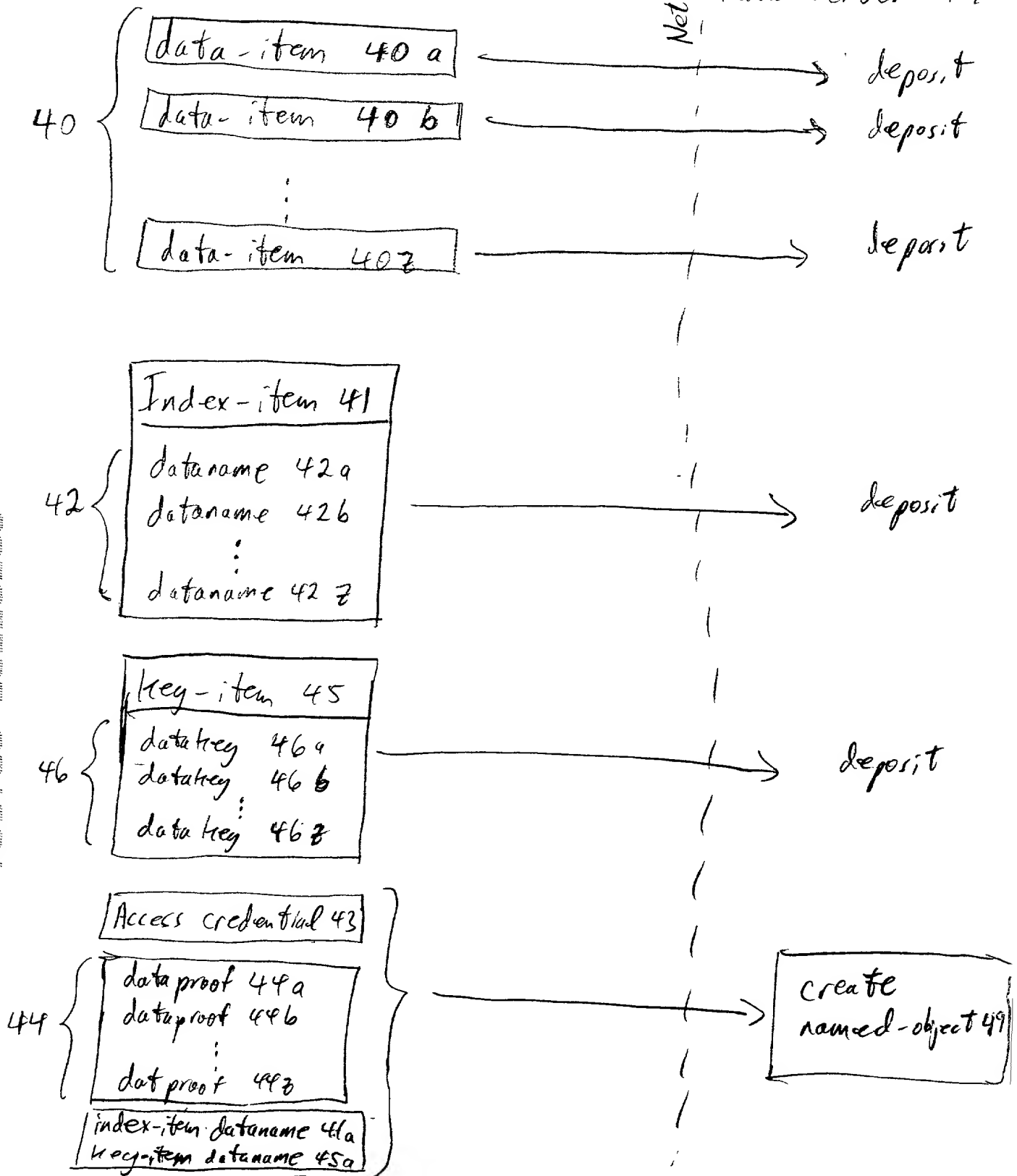


Figure 7

USER

Repository

Network

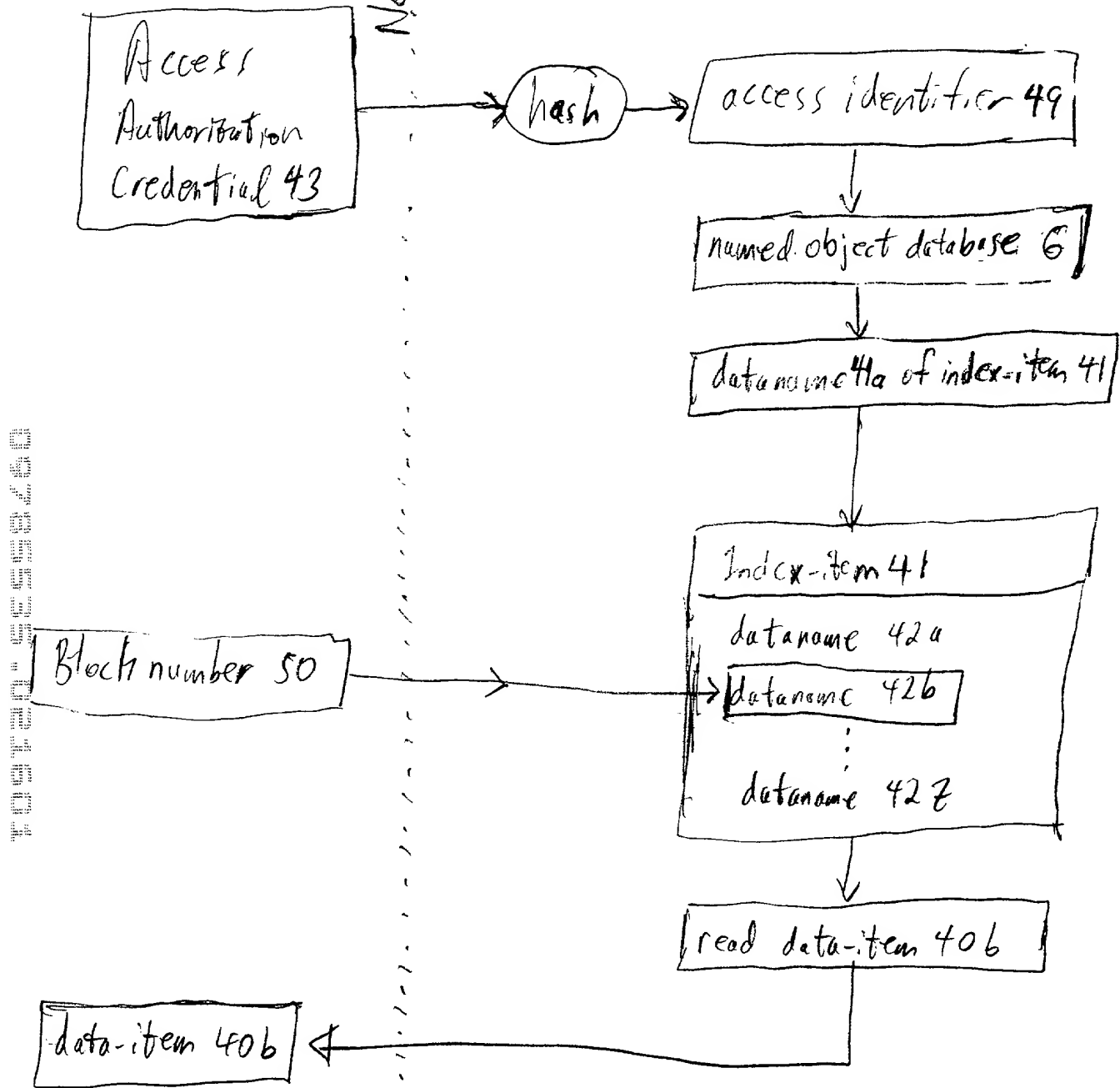


Figure 8

of many users
for session

Network

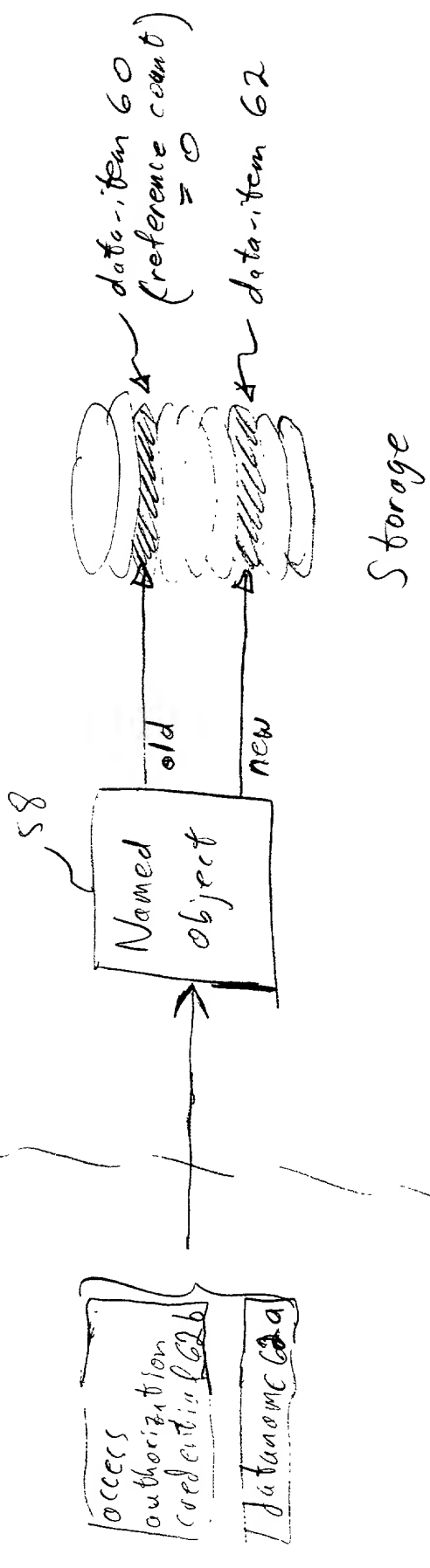


Figure 9.

Repository Named-Object Server 70

access-identifier 71i

= hash(namespace-ID 72i, handle 73i, version# 74i)

Named-object database 75

access-identifier 71a | dataname 76a

access-identifier 71b | dataname 76b

⋮

access-identifier 71z | dataname 76z

select
all named objects 1-2 weeks old

Timestamp data-item 78

80i → hash(access-identifier 71i, dataname 76i)

80k → hash(access-identifier 71k, dataname 76k)

⋮



Storage

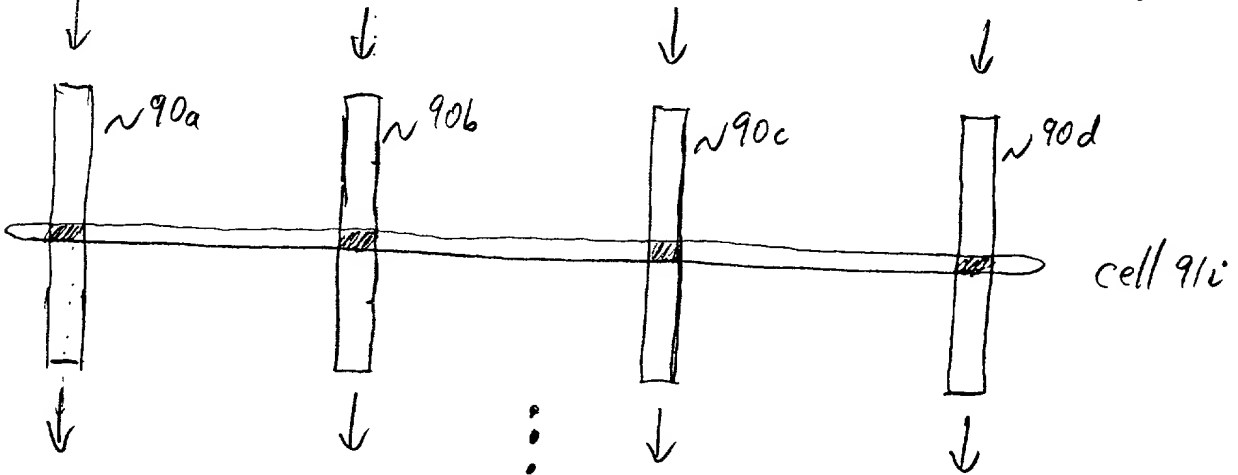
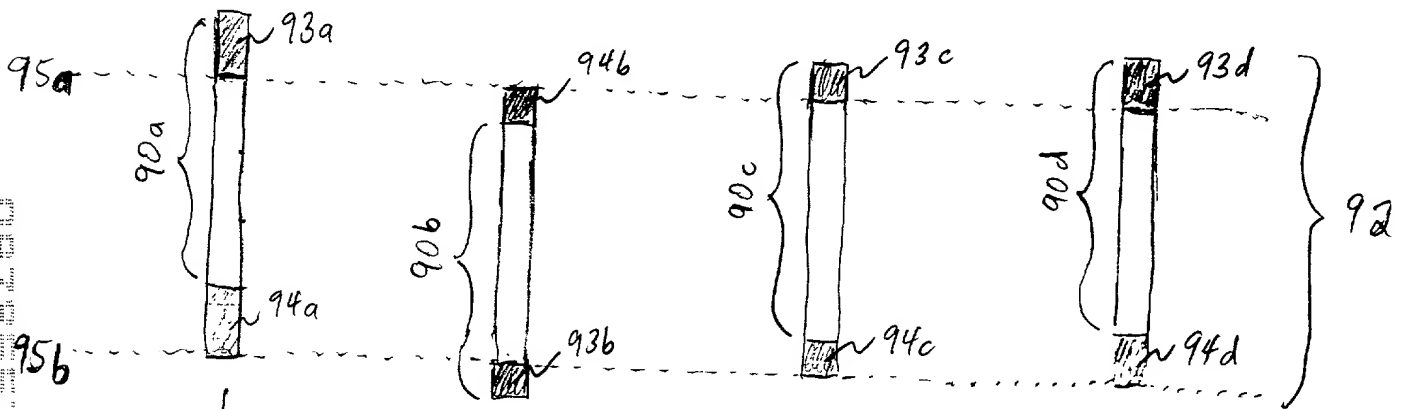
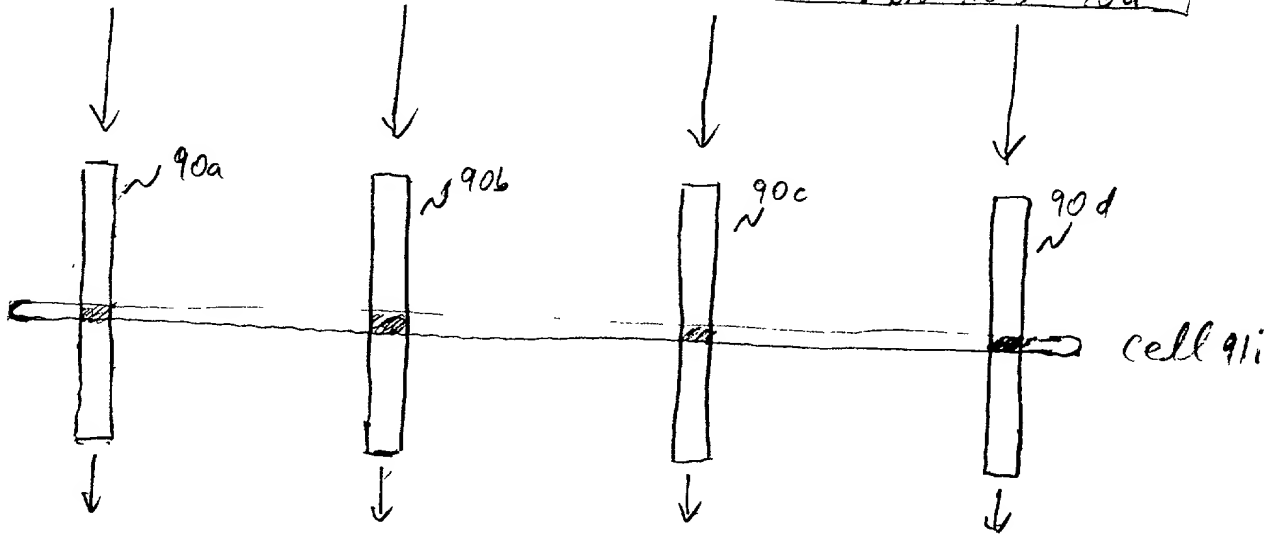
dataname 78a

Publish dataname 78a

Figure 10

Bit - String 90

bit-field 90a | bit-field 90b | bit-field 90c | bit-field 90d



key 99 :

shift amount | shift amount | shift amount | shift amount | perm# ...
 99a 99b 99c 99d 99e

Fig. 11